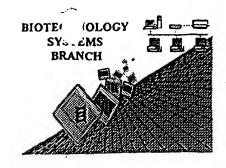


# RAW SEQUENCE LISTING ERROR REPORT



#12

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

09/445, 480

Source:

DIPE

Date Processed by STIC:

9/25/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

#### Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

46

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/445,480

DATE: 09/25/2001

TIME: 04:28:44

INPUT SET: \$36623.raw

Does Not Comply
Corrected Diskette Needed

This Raw Listing contains the General Information Section and up to the first 5 pages.

	1		SEQUENCE LISTING	
	2		General Information:  APPLICANT:  Surname (on	
	3	(1) G	General Information:	
	4		L Surneme con	- ~ C
>	5	(i)	) APPLICANT:	47700
>	6 7		(A) NAME: DLU-Center for Plant Breeding and (THP) MA 44 (-1)	
>	, 8		Reproduction Research  (B) STREET: Droevendaalsesteeg 1	
>	9	.0	(C) CITY: Wageningen	C
>	10	remove	(E) COUNTRY: The Netherlands	Sequence
>	11	(611m /	(F) POSTAL CODE (ZIP): 6708 PB Rules Many Colod	0
>	12	'	(G) TELEPHONE: +31 317 477001	
>	13		(H) TELEFAX: +31 -317 -418094	
>	14		(I) TELEX: -	
	15			
	16	(ii)	) TITLE OF INVENTION: A method for plant protection against insects	
	17		or nematodes	
	18			
	19	(iii)	) NUMBER OF SEQUENCES: 4	E ADDRESS
	20		/MJEAT (14) Calleston Don	
	21	( مصفعا	NUMBER OF SEQUENCES: 4  (IV) CORRESPONDENCE  (A) MEDIUM TYPE: Floppy disk  (B) COMPUTER: IBM PC compatible	Sesion
	22	(v)	(A) MEDIUM TYPE: Floppy disk	
	23		Table 1000aca,	
	24		(C) OPERATING SYSTEM: PC-DOS/MS-DOS	
	25		(D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)	
	26	(\	A CURDENIE A DRI TOMETON DAGA	
	27 28	(V)	CURRENT APPLICATION DATA:	
	29		APPLICATION NUMBER: PCT/NL98/00352	
	30	(2) INFO	ORMATION FOR SEQ ID NO: 1:	
	31	(2) 111101	old Millon For Bild ID No. 1.	
	32	(i)	SEQUENCE CHARACTERISTICS:	
	33	(/	(A) LENGTH: 888 base pairs	
	34		(B) TYPE: nucleic acid	
	35		(C) STRANDEDNESS: double	
	36		(D) TOPOLOGY: linear	
	37			
	38	(ii)	MOLECULE TYPE: cDNA	
	39			
	40	(iii)	HYPOTHETICAL: NO	
	41			
	42	(iv)	ANTI-SENSE: NO	
	43		ODIGINAL GOVERN	
	44	(V1)	ORIGINAL SOURCE:	
	45		(A) ORGANISM: Actinia equina	

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/445,480

DATE: 09/25/2001 TIME: 04:28:45

INPUT SET: S36623.raw

		nvi er seri	550025.747
47	(ix)	) FEATURE:	
48		(A) NAME/KEY: mat_peptide	
49		(B) LOCATION:99695	
50			
51	(ix)	) FEATURE:	
52		(A) NAME/KEY: CDS	
53		(B) LOCATION:3695	
54			
55	(ix)	FEATURE:	
56	, ,	(A) NAME/KEY: sig_peptide	
57		(B) LOCATION:398	
58		,_,	
59	(ix)	FEATURE:	
60	( === /	(A) NAME/KEY: 5'UTR	
61	•	(B) LOCATION:12	
62		(b) Location. 12	
63	(iv)	FEATURE:	
64	(17)	(A) NAME/KEY: 3'UTR	
65		(B) LOCATION:696888	
		(B) LOCALLON:030000	
66 67	()	DUDI TOMON THEODIAMON	
68	(X)	PUBLICATION INFORMATION:	
		(A) AUTHORS: Gruden, Kristina	
69		Strukelj, Borut	
70		Popovic, Tatjana	
71		Lenarcic, Brigita	
72		Bevec, Tadeja	
73		Brzin, Joze	
74		Kregar, Igor	
75		Herzog-Velikonja, Jana	
76		Stiekema, Willem J	
77		Bosch, Dirk	
78		(B) TITLE: The cysteine protease activity of Colorado	
79		potato beetle (Leptinotarsa decemlineata) guts	,
80		which is insensitive to potato protease	
81		inhibitors, is inhibited by thyroglobulin type	-1
82		domain inhibitors	
83		(C) JOURNAL: Insect Biochem. Mol. Biol	
84		(D) VOLUME: 28	
85		(F) PAGES: 549-560	
86		(G) DATE: 1998	
87			
88	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 1:	
89		•	
90	CT ATG GO	CT CTT AGC CAA AAC CAA GCC AAG TTT TCC AAA GGA TTC GTC	47
91	Met Al	ala Leu Ser Gln Asn Gln Ala Lys Phe Ser Lys Gly Phe Val	
92	-32	-30 -25 -20	
93			
94	GTG ATG A	ATT TGG GTA CTA TTC ATT GCT TGT GCT ATA ACT TCA ACT GAA	95
95		Ile Trp Val Leu Phe Ile Ala Cys Ala Ile Thr Ser Thr Glu	
96		-15 -10 -5	
97		-	
98	GCT AGT C	CTA ACC AAA TGC CAA CAG CTC CAG GCC TCG GCT AAC AGT GGT	143
99		Leu Thr Lys Cys Gln Gln Leu Gln Ala Ser Ala Asn Ser Gly	
	<del>-</del>		

### RAW SEQUENCE LISTING PATENT APPLICATION US/09/445,480

DATE: 09/25/2001 TIME: 04:28:45

100		1				5					10			IN	<i>NPUT</i>	<b>SET:</b> 15	S36623.raw
101																	
102						GTA											191
103	Leu	Ile	GIA	Thr		Val	Pro	GIn	Cys	_	Glu	Thr	СТУ	GLu		GIu	
104					20					25					30		
105			<b>~~~</b>			~~-	maa		~~=			maa	<b></b>	~~~	~~~	~	
106						GGA											239
107	GIU	гÀг	GIII	-	Trp	Gly	ser	THE		Tyr	Cys	тър	Cys		Asp	GIU	
108				35					40					45			
109 110	CATE	003	7 7 7	CAC	א תיתי	CTA	CCA	700	770	አሞር	CCT	CCA	m/cm	ccc	CAT	TOC	287
111						Leu											207
112	Asp	GLY	Бу 5 50	GIU	116	пец	GIY	55	цуз	110	тg	Gry	60	FIU	App	Cys	
113			50					23					00				
114	AGC	CGC	AGA	ΔΔΔ	GCC	GCG	מייים	ACA	СТТ	TGC	CAG	ATG	ATG	CAA	GCC	ATC	335
115						Ala											333
116	501	65		_,,			70			O, D	01	75		<b></b>			
117		•					, •										
118	ATT	GTT	ААТ	GTC	CCT	GGT	TGG	TGT	GGC	CCT	CCA	TCG	TGT	AAA	GCT	GAC	383
119						Gly											
120	80			-		85	•	- 4	4		90		•	4		95	
121																	
122	GGC	AGT	TTT	GAC	GAG	GTT	CAG	TGC	TGC	GCA	AGT	AAT	GGA	GAA	TGC	TAC	431
123	Gly	Ser	Phe	Asp	Glu	Val	Gln	Cys	Cys	Ala	Ser	Asn	Gly	Glu	Cys	Tyr	
124	_			_	100				_	105			_		110		
125																	
126	TGT	GTG	GAT	AAG	AAA	GGA	AAA	GAA	CTT	GAA	GGC	ACA	AGA	CAA	CAG	GGA	479
127	Cys	Val	Asp	Lys	Lys	Gly	Lys	Glu	Leu	Glu	Gly	Thr	Arg	Gln	Gln	Gly	
128				115					120					125			
129																	
130						AGA											527
131	Arg	Pro		Cys	Glu	Arg	His		Ser	Glu	Cys	Glu		Ala	Arg	Ile	
132			130					135					140				
133	330	~~~	~~~	max	***		CITITE I	COM		~~~	3.000	mma	ama	~~~	~~~	mam	
134						AGT											575
135	ьуs	_	HIS	ser	Asn	Ser		Arg	vai	GIU	Met		Val	Pro	GIU	Cys	
136		145					150					155					
137 138	יויייזי א	CAA	CAT	CCA	יירי א	TAT	አልሮ	CCA	CTA	CAG	TCC	TCC	CCT	NGC	አሮአ	CCA	623
139						Tyr											623
140	160	GIU				165								561	1111	175	
141	100					-03					_,,					-,5	
142	TAC	TGT	TGG	TGC	GTC	GAT	GAA	GGA	GGG	GTA	AAG	GTA	CCA	GGT	TCC	GAT	671
143						Asp											<b>5</b> , <b>2</b>
144	-1-	-1-		-1-	180			1	1	185	-1-				190		
145																	
146	GTC	AGA	TTT	AAA	CGC	CCC	ACA	TGC	TAAG	AAA	AC A	CAGT	GAAC	A AZ	AGTGG	CTAC	725
147	Val	Arg	Phe	Lys	Arg	Pro	Thr	Cys									
148		_		195	-												
149																	
150	TTTC	CAG	ATC (	AAA	MAAT	T AC	CAAAC	GATT	' AA'	TAAAT	TGT	TAA	ATA	TT I	CTC	ATTC	G 785
151																	
152	GCT	TGAT	TAT A	ATTT1	TTCC	CA AC	ATA	TTTP	ATC	CTGCA	TGT	AGTT	CAACA	AGA A	AAACA	ATCT	C 845

### RAW SEQUENCE LISTING PATENT APPLICATION US/09/445,480

DATE: 09/25/2001 TIME: 04:28:45

#### INPUT SET: S36623.raw

														117	VPUI	SEI:	330023	raw
153 154 155 156	AAC'	raga:	AAT I	AAAG	ACTA	CG G	TAAT	AATG!	A CAI	AAAA	AAA	AAA						888
157	(2)	INF	ORMA!	rion	FOR	SEQ	ID 1	NO: 2	2:									
158 159	(i) SEQUENCE CHARACTERISTICS:																	
160	(A) LENGTH: 231 amino acids																	
161	(B) TYPE: amino acid																	
162	(D) TOPOLOGY: linear																	
163																		
164						YPE:	_		750	TD 17/		_						
165		(XI	) SE(	SOFM.	CE D	ESCR:	LPTI	JN: 3	SEQ .	א עם	): 2	•						
166 167	Met	Δla	T.e.11	Ser	Gln	Asn	Gln	Δla	Lvs	Phe	Ser	Lvs	Glv	Phe	Va]	Val		
168	-32	AIG	-30		9111	7.511	0111	-25	בינם	1 110	<i>D</i> -1	_,5	-20					
169																		
170	Met	Ile	Trp	Val	Leu	Phe	Ile	Ala	Cys	Ala	Ile	Thr	Ser	Thr	Glu	Ala		
171		-15	_				-10					-5						
172							_			_		_				_		
173		Leu	Thr	Lys	-	Gln	Gln	Leu	Gln		Ser	Ala	Asn	Ser		Leu		
174	1				5					10					15			
175 176	Tle	Glv	Thr	ጥነሪን	Va l	Pro	Gln	Cvs	Lvs	Glu	Thr	Glv	Glu	Phe	Glu	Glu		
177	116	GLy	1111	20	Val	110	GIII	Cyb	25	Olu	+ + + + + +		CIU	30	O_Lu	014		
178																		
179	Lys	Gln	Cys	Trp	Gly	Ser	Thr	Gly	Tyr	Cys	Trp	Cys	Val	Asp	Glu	Asp		
180			35					40					45					
181			_	_		_	_						_		_			
182	Gly	_	Glu	Ile	Leu	Gly		Lys	Ile	Arg	GLY		Pro	Asp	Cys	ser		
183		50					55					60						
184 185	Ara	Δνα	Tare	Δla	Δla	Leu	Thr	T.e.ii	Cvs	Gln	Met	Met	Gln	Δla	Tle	Tle		
186	65	A. 9	цуз	ALG	AIG	70	****	cu	Cyb	0111	75		0.1.1.			80		•
187	•																	
188	Val	Asn	Val	Pro	Gly	Trp	Cys	Gly	Pro	Pro	Ser	Cys	Lys	Ala	Asp	Gly		
189					85					90					95			
190	_	_,	_			7	_				_	~1	~1	~		<b>a</b>		
191	Ser	Phe	Asp		val	Gln	Cys	Cys		ser	Asn	GIY	GIU		Tyr	Cys		
192 193				100					105					110				
194	Val	Asp	Lvs	Lvs	Glv	Lys	Glu	Leu	Glu	Glv	Thr	Ara	Gln	Gln	Glv	Ara		
195			115	-10	1	-1-		120		2			125		2	3		
196																		
197	Pro	Thr	Cys	Glu	Arg	His	Leu	Ser	Glu	Cys	Glu	Glu	Ala	Arg	Ile	Lys		
198		130					135					140						
199	<b>77</b> .	**! -	<b>a</b>	<b>3</b>		<b>7</b>	7	**** 7	<b>41.</b>	Mek	Db	77e 7	Dese	a1	C1	т		
200 201		HIS	ser	Asn	ser	Leu 150	arg	vaı	GIU	мес	155	vaı	Pro	GIU	cys	ьеи 160		
201	145					150					133					100		
203	Glu	Asp	Glv	Ser	Tyr	Asn	Pro	Val	Gln	Cys	Trp	Pro	Ser	Thr	Gly	Tyr		
204		- 4.	- 3	- '	165					170	•				175	-		
205																		

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/445,480

DATE: 09/25/2001 TIME: 04:28:46

206 207 208	Cys Trp Cys Val Asp Glu Gly Gly Val Lys Val Pro Gly Ser Asp Val 180 185 190	,
209 210 211	Arg Phe Lys Arg Pro Thr Cys 195	
212 213	(2) INFORMATION FOR SEQ ID NO: 3:	
214 215 216 217 218 219	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 696 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
220	(ii) MOLECULE TYPE: cDNA	
221 222 223	(iii) HYPOTHETICAL: NO	
224 225	(iv) ANTI-SENSE: NO	
226 227 228	(vi) ORIGINAL SOURCE: (A) ORGANISM: Actinia equina	
229 230 231	<pre>(vii) IMMEDIATE SOURCE:    (B) CLONE: optimized gene for expression in plants</pre>	
232 233 234 235	(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION:1693	
236 237 238 239	<pre>(ix) FEATURE:    (A) NAME/KEY: mat_peptide    (B) LOCATION:97693</pre>	
240 241 242 243	<pre>(ix) FEATURE:     (A) NAME/KEY: sig_peptide     (B) LOCATION:1693</pre>	
244 245 246	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:	
247 248 249 250		8
251 252 253 254	ATG ATT TGG GTA CTA TTC ATT GCT TGT GCT ATC ACT TCA ACT GAA GCT  Met Ile Trp Val Leu Phe Ile Ala Cys Ala Ile Thr Ser Thr Glu Ala  -15  -10  -5	6
255 256 257 258	AGT CTA ACG AAA TGC CAA CAG CTG CAG GCC TCG GCT AAC AGT GGT CTG  Ser Leu Thr Lys Cys Gln Gln Leu Gln Ala Ser Ala Asn Ser Gly Leu  1 5 10 15	4

# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/445,480

DATE: 09/25/2001 TIME: 04:28:46

INPUT SET: S36623.raw

Line	Error	Original Text
5 6 8 9 10 11 12 13 14	Mandatory Value Not Present Unknown or Misplaced Identifier	<ul> <li>(i) APPLICANT:</li> <li>(A) NAME: DLO-Center for Plant Breeding and</li> <li>(B) STREET: Droevendaalsesteeg 1</li> <li>(C) CITY: Wageningen</li> <li>(E) COUNTRY: The Netherlands</li> <li>(F) POSTAL CODE (ZIP): 6708 PB</li> <li>(G) TELEPHONE: +31 317 477001</li> <li>(H) TELEFAX: +31 317 418094</li> <li>(I) TELEX: -</li> </ul>

# SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/09/445,480

DATE: 09/25/2001 TIME: 04:28:46

INPUT SET: S36623.raw

ADDRESSEE
STREET
CITY
STATE
COUNTRY
ZIP
CORRESPONDENCE ADDRESS
APPLICATION NUMBER
FILING DATE
CLASSIFICATION
APPLICATION NUMBER
FILING DATE
PRIOR APPLICATION DATA

# SEQUENCE CORRECTION REPORT PATENT APPLICATION US/09/445,480

DATE: 09/25/2001 TIME: 04:28:46

THATE: 04.20.10

INPUT SET: S36623.raw

Line

Original Text

Corrected Text